

IN THE CLAIMS:

1. – 4. (Cancelled)

5. (Currently Amended) An afterburner device for stoves for burning biomass, coke or coal, supplying fresh, heated air to an upper zone of the stove's a combustion chamber in the an existing traditional stove, the afterburner device comprising: wherein the device is constituted by a substantially flat plate assembly having a fold along each edge of the plate assembly, that is folded to wherein the plate assembly is configured to form a chamber when installed on the inner side of a side or rear wall of [[an]] the existing traditional stove, that the existing traditional stove is provided with at least one secondary air aperture providing communication between ambient air and the chamber near the bottom of said chamber, and that the plate assembly is provided with at least one first hole in communication with said combustion chamber near the bottom of said chamber and wherein the plate assembly includes a first plate and a second plate, the first plate overlaps a portion of the second plate.

6. (Currently Amended) The afterburner device according to claim 5, wherein the plate assembly has at least one second hole in communication with said upper zone of the stove's combustion chamber near the top of said chamber, whereby air drawn in through the at least one secondary air aperture is pre-heated while rising up behind the plate assembly within said chamber, and is expelled through the at least one second hole into the upper zone of the stove's combustion chamber.

7. (Previously Presented) The afterburner device according to claim 5, wherein the at least one first hole establish and maintain a pilot flame.

8. (Currently Amended) The afterburner device according to claim 5, wherein the first plate and the second plate of the plate assembly consists of two parts which can be mutually displaced to provide an adjustable dimension in a lateral direction when installed, for adaptation to stoves of different sizes.

Please add the following new claims:

9. (New) A method of placing an afterburner device in an existing stove for supplying fresh heated air into a combustion chamber of the existing stove, the method comprising:

installing a folded plate in the existing stove such that a flow canal is created between the folded plate and a wall of the existing stove; and

creating an inlet air pathway by forming a hole or a slit in the wall of the existing stove, wherein the inlet air pathway is connected to primary airflow outlets in the folded plate via the flow canal to allow air from an exterior of the existing stove to circulate into the combustion chamber via the inlet air pathway, the flow canal and the primary airflow outlets.

10. (New) The method of claim 9, further comprising creating a secondary airflow outlet by forming a hole in a lower portion of the folded plate.

11. (New) The method of claim 10, wherein the hole for the secondary airflow outlet is configured to allow airflow into the combustion chamber in order to establish and maintain a pilot flame.

12. (New) The method of claim 9, wherein the circulated air is heated as the air travels through the flow canal.

13. (New) The method of claim 9, wherein the inlet air pathway is at a lower end of the flow canal and the primary airflow outlets are at an upper end of the flow canal.

14. (New) The method of claim 9, wherein the folded plate comprises a first plate that overlaps a second plate.

15. (New) The method of claim 14, further comprising adjusting a width of the folded plate by sliding the first plate over the second plate, wherein the width of the folded plate is adjusted prior to installing the folded plate in the existing stove.

16. (New) A method of circulating fresh heated air into a combustion chamber of an existing stove, the combustion chamber is enclosed by a first wall, a second wall, a third wall and a fourth wall, the method comprising:

providing the existing stove;

forming an airflow chamber on an interior portion of the existing stove by attaching a folded plate to the first wall of the existing stove, wherein the folded plate is spaced from the first wall and wherein the airflow chamber includes at least one outlet hole at an upper end of the airflow chamber;

forming at least one inlet hole at a lower end of the airflow chamber, wherein the inlet hole is formed in the first wall of the existing stove; and

allowing air to circulate into the combustion airflow chamber along an airflow pathway defined by the inlet hole, the airflow chamber and the outlet hole.

17. (New) The method of claim 16, further comprising heating the circulated air as the air travels along the airflow pathway.

18. (New) The method of claim 16, further comprising forming a second outlet hole at the lower end of the airflow chamber, wherein the second outlet hole is formed at a lower end of the folded plate.

19. (New) The method of claim 18, wherein the second outlet hole is configured to allow airflow into the combustion chamber in order to establish and maintain a pilot flame.

20. (New) The method of claim 16, wherein the airflow chamber is formed on a side of the existing stove.